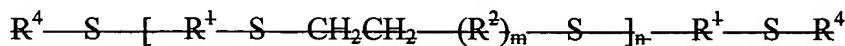


AMENDMENTS TO THE CLAIMS

1-21. (canceled).

22. (currently amended) A polythioether comprising:



wherein

R^1 is a C_{1-10} alkyl, $(R^3Q)_pR^3$ or C_6-C_{20} aryl where Q is O or S,

each R^3 is independently C_{1-6} alkyl, and

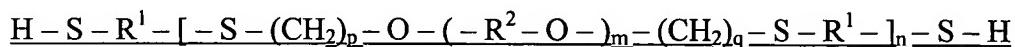
p is an integer between 0 and 6,

R^2 is C_{1-6} alkyloxy or C_{5-12} cycloalkyloxy,

R^4 is H, C_{1-6} alkyl alcohol and C_{0-6} alkyl substituted with $[CH_2CH_2(R^2)_m] - X$, where X is a halogen,

m is an integer between 1 and 4, and

n is an integer selected to yield a molecular weight for said polythioether of between 1000 and 10,000 Daltons.



wherein

R^1 is selected from the group consisting of C_{2-6} n-alkylene, and a $-[(-CH_2)_p-X]_q-(-CH_2)_r-$ group;

R^2 is selected from the group consisting of C_{2-6} n-alkylene, and C_{6-8} cycloalkylene;

X is selected from the group consisting of O and S;

m is an integer between 0 and 10;

p is an integer between 2 and 6;

q is an integer between 1 and 5;

r is an integer between 2 and 10; and

n is an integer between 1 and 60 selected so that the molecular weight of the polythioether is between 1,000 and 10,000 Daltons.

23. (currently amended) The polythioether of claim 22 wherein R¹ is C₂-C₈ C₂-C₆ n-alkylene.

24. (currently amended) The polythioether of claim 22 where R¹ is $-[(-CH_2)_p-O-]_q(-CH_2-$
 $)_r-$ where r, p, and q are 2 is $(R^3Q)_pR^3$ — where R³ in each occurrence is C₁₋₂ alkylene and p being
1 or 2.

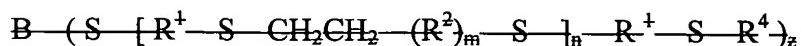
25. (currently amended) The polythioether of claim 22 wherein R² is C₁-C₂ C₂ alkyleneoxy.

26. (currently amended) The polythioether of claim 22 wherein the molecular weight of said polythioether ranges from about 2000 to about and 6000 5000 Daltons.

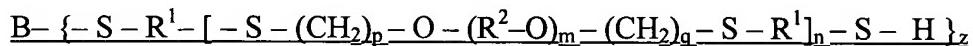
27. (currently amended) The polythioether of claim 22 wherein R⁴ is hydrogen having an atomic percentage ratio of C:S:O of 35-49 : 20-60 : 0-20.

28-30. (canceled)

31. (currently amended) A mixture of polythioether polymers comprising:
a polythioether polymer having the formula



where B is a z-valent group of a polyfunctionalizing agent, z is an integer from 3 to 6, R¹ is a C₁₋₁₀ alkyl, (R³Q)_pR³ or C_{6-C₁₀} aryl where Q is O or S, each R³ is independently C₁₋₆ alkyl, and p is an integer between 0 and 6, R² is C₁₋₆ alkoxy or [[C₅₋₁₂]] cycloalkoxy, R⁴ is H, C₁₋₆ alkyl alcohol and C₀₋₆ alkyl substituted with [CH₂CH₂(R²)_m]X, where X is a halogen, m is an integer between 1 and 4, and n is an integer selected to yield a molecular weight for said polythioether of between 1000 and 10,000 Daltons.



wherein

R¹ is selected from the group consisting of C₂₋₆ n-alkylene, and a -[(-CH₂)_p-X]_q-(-CH₂)_r-

group;

R² is selected from the group consisting of C₂₋₆ n-alkylene, and C₆₋₈ cycloalkylene;

X is selected from the group consisting of O and S;

m is an integer between 1 and 10;

p is an integer between 2 and 6;

q is an integer between 1 and 5;

r is an integer between 2 and 10;

z is an integer from 3 to 6;

B is a z-valent group of a polyfunctionalizing agent; and

n is an integer between 1 and 60 selected so that the molecular weight of the polythioether is between 1,000 and 10,000 Daltons.

32. (previously added presented) The polythioether mixture of claim 31 wherein z is 3.

33. (currently amended) The polythioether mixture of claim 31 wherein the mixture has an average functionality between 2 3 and 4.

34. (previously added presented) The polythioether mixture of claim 33 wherein the average functionality is between 2.05 and 3.00.

35. (currently amended) A curable composition comprising:

~~42 to 80~~ 40 to 80 weight percent of a polythioether polymer according to claim 22,
~~0.3 to 15~~ 5 to 60 weight percent of a ~~lightweight~~ filler and ~~0.1 to 20~~ 10 weight percent of a curing agent.

36. (currently amended) The curable composition of claim 35 further comprising one or more additives selected from the group consisting of: pigments, cure accelerators, ~~surfactants~~, adhesion promoters, thixotropic agents and isopropyl alcohol solvents.

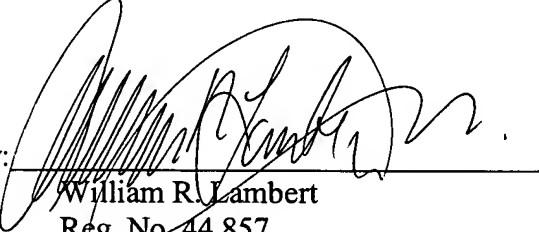
37-40. (canceled).

A copy of the Notice of Non-Compliant Amendment is attached. Please grant any extensions of time required to enter this response and charge any additional required fees to Deposit Account No. 06-0916.

Respectfully submitted,

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By:


William R. Lambert
Reg. No. 44,857

Dated: March 16, 2004